

Gold King Mine Discharge

	8/10/2015	8/13/2015	8/15/2015	8/17/2015	8/19/2015
DISSOLVED METALS					
Aluminum (ug/L)	35000	36000	34000	33000	32000
Antimony (ug/L)	0.5 J	10	3.7	0.44 J	0.69 J
Arsenic (ug/L)	3.7	140	44	2.6	6.6
Barium (ug/L)	8.9	12	8.6	8.9	9.3
Beryllium (ug/L)	11	11	11	9.8	8.5 ^
Cadmium (ug/L)	65	66 B	82	80	83
Calcium (ug/L)	380000	360000	370000 B	370000 B	370000
Chromium (ug/L)	2.7	8.6	5.5	2.5	2.5 ^
Cobalt (ug/L)	110	110	110	100	100 ^
Copper (ug/L)	6000 E	6100 E	4600 E	5800 E	5600 E
Iron (ug/L)	120000	370000	150000	110000	110000
Lead (ug/L)	32	78	42	32	28
Magnesium (ug/L)	33000	26000	27000	26000	26000
Manganese (ug/L)	33000 E	34000 E	36000	32000 E	32000 E
Mercury (ug/L)	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
Molybdenum (ug/L)	0.84 J	16	4.2	0.45 U	1.7
Nickel (ug/L)	72	69	69	62	64
Potassium (ug/L)	2700	2700	2400	2600	2600
Selenium (ug/L)	1.7 JB	4.8	4.7 B ^	12 B^	11 B^
Silver (ug/L)	0.1 U	0.33 J	0.1 J	0.1 U	0.1 U^
Sodium (ug/L)	3900	480 U	5300	5500	480 U
Thallium (ug/L)	0.32	0.35	0.29	0.27	0.29
Vanadium (ug/L)	2	87	38	1.1	2.6
Zinc (ug/L)	25000 E	26000 E	20000 E	24000 E	22000 ^E
TOTAL METALS AND MISC					
Alkalinity (mg/L)	NA	5 U	5 U	5 U	5 U
Aluminum (ug/L)	38000	36000	33000	33000	33000
Antimony (ug/L)	4.3	9.4	0.62 J	3.5	3.7
Arsenic (ug/L)	49	130 B	5.5	45	49
Barium (ug/L)	9.5	11 B	8.7	9	8.8
Beryllium (ug/L)	11	11	11	9.8	8.6 ^
Cadmium (ug/L)	67	68	85	77	79
Calcium (ug/L)	380000	380000	380000 B	360000 B	370000
Chloride (mg/L)	NA	0.34 J	0.36 J	0.36 J	NA
Chromium (ug/L)	5.7	7 ^	3	4.2	4.6 ^
Cobalt (ug/L)	120	110	110	100	100 ^
Copper (ug/L)	6300 E	6000 E	4600 E	5800 E	5600 E
Fluoride (mg/L)	NA	11	10	11	NA
Iron (ug/L)	190000	310000	120000	140000	140000
Lead (ug/L)	51	69	29	41	41
Magnesium (ug/L)	28000	28000	27000	26000	25000
Manganese (ug/L)	34000 E	35000 E	36000	32000 E	32000 E

Mercury (ug/L)	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
Molybdenum (ug/L)	4.8	14	0.77 J	4.3	6
Nickel (ug/L)	74	70	72	63	63
Nitrate as N (mg/L)	NA	0.023 U	0.023 U H	0.046 UH	0.023 UH
pH	NA	3.06 HF	2.93 HF	3.03 HF	2.92 HF
Potassium (ug/L)	2900	2700	2500	2600	2600
Selenium (ug/L)	2.5 ^	4.3 B^	3.3 ^ B	15 B^	8.3 B^
Silver (ug/L)	0.15 J	0.3 J	0.1 U	0.1 U	0.16 J^
Sodium (ug/L)	4000	4800 U	5200	5300	480 U
Sulfate (mg/L)	NA	1600	1600	1600	NA
Thallium (ug/L)	0.33	0.35	0.29	0.27	0.29
Total Hardness (mg/L)	1100	1100	1100	1000	1000
Vanadium (ug/L)	44	71 E	2.5	32	32
Zinc (ug/L)	27000 E	26000	20000 E	24000 E	21000 E^

NA	Not analyzed
E	Result exceeded sample range
U	The analyte was analyzed for but not detected
J	The result is less than the reporting limit but greater than or equal to the MDL and the con
^	Instrument related QC is outside acceptance limits

8/22/2015

8/24/2015

32000	31000
3.2 *	0.57
39	2.1
10 *	7.9
11	9.3
82 *	69
380000 *	350000
4.6	2.9
120	120
5900E	6600
130000	97000
38	25
27000	22000
35000E	36000
0.08U	0.08U
4.5 *	0.76
63	80
2500	2600
5.3 * ^	U ^
0.1U *	0.1U
480 U	480U L
0.3	0.45
29	3.4
25000E	28000
5U	5U
33000	32000
3.4 *	2.4
48	14
10 *	6.9
11	8.2
84 *	60
380000 *	400000
0.38J	0.35
5.2	4.2
120	120
6300E	6100
10	10
140000	140000
41	38
27000	27000
38000E	35000

0.08 U	0.08 U
5.4 *	3.5
67	71
0.023 U H	0.23 U
3.23 HF	3.11
2600	2700
2.4 ^ *	U
0.1 J *	0.1 U
480 U	480 U L
1600	1800
0.31	0.44
1100	1100
36	30
26000 E	28000

centration is an approximate value.

Pond System Discharge

	8/11/2015	8/13/2015	8/15/2015	8/17/2015	8/19/2015
DISSOLVED METALS					
Aluminum (ug/L)	8500	11000	28000	17000	26000
Antimony (ug/L)	0.4 U	1.4	1.5	0.4 U	0.4 U
Arsenic (ug/L)	0.37 U	13	16	0.52 J	1
Barium (ug/L)	9.4	9.1	8.5	13	10
Beryllium (ug/L)	3.4	3.6	9	5.8	6.8 ^
Cadmium (ug/L)	80	70 B	80	63	79
Calcium (ug/L)	340000	340000	350000 B	310000 B	340000
Chromium (ug/L)	1 U	1.4 J	3.3	1 U	1 U^
Cobalt (ug/L)	100	93	100	80	95 ^
Copper (ug/L)	2800	1800	3900 E	3300	4400 E
Iron (ug/L)	63000	90000	96000	52000	63000
Lead (ug/L)	2.6	16	24	8.8	11
Magnesium (ug/L)	26000	26000	26000	22000	25000
Manganese (ug/L)	30000 E	29000 E	31000	24000 E	28000 E
Mercury (ug/L)	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
Molybdenum (ug/L)	0.64 J	2.2	1.4	0.45 U	1.3
Nickel (ug/L)	58	55	68	48	58
Potassium (ug/L)	2300	2300	2200	2000	2600
Selenium (ug/L)	0.58 U	3.1	3.8 B ^	11 B^	9.1 B^
Silver (ug/L)	0.1 U	0.11 J	0.1 U	0.1 U	0.1 U^
Sodium (ug/L)	120000 E	150000 E	52000	50000	46000
Thallium (ug/L)	0.25	0.25	0.23	0.17 J	0.24
Vanadium (ug/L)	0.3 U	9.7	14	0.3 U	0.3 U
Zinc (ug/L)	22000 E	19000 E	18000 E	17000 E	19000 ^E
TOTAL METALS AND MISC					
Alkalinity	5 U	5 U	5 U	5 U	5 U
Aluminum	21000	11000	26000	22000	24000
Antimony	1.3	1.3	0.4 U	1.1	1.3
Arsenic	12	14 B	1.2	14	17
Barium	9.5	9.3 B	9	12	11
Beryllium	6.6	3.5	8.6	6.5	7 ^
Cadmium	79	71	84	62	70
Calcium	340000	350000	360000 B	310000 B	320000
Chloride	0.9	2.8	1.2	1.1	NA
Chromium	2.6	1.1 J^	1 U	1.8 J	2.2 ^
Cobalt	99	95	100	80	90 ^
Copper	3900 E	1800	3800 E	3600	4100 E
Fluoride	7.2	5.5	8.9	7.8	NA
Iron	99000	87000	70000	76000	78000
Lead	22	16	11	26	26
Magnesium	26000	27000	28000	23000	23000
Manganese	29000 E	30000 E	32000	25000 E	27000 E

Mercury	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
Molybdenum	1.6	2.3	0.45 U	1	2.7
Nickel	60	57	70	50	55
Nitrate as N	0.046 U	0.023 U	0.025 J H	0.046 UH	0.023 UH
pH	4.59 J	4.52 HF	3.19 HF	3.69 HF	3.35 HF
Potassium	2300	2400	2200	2100	2500 F1
Selenium	0.58 U	3.9 B^	3.2 ^ B	14 B^	6.7 ^B
Silver	0.11 J	0.11 J	0.1 U	0.1 U	0.11 J
Sodium	120000 E	140000	54000	51000	40000
Sulfate	1400	1400	1400	1300	NA
Thallium	0.27	0.27	0.23	0.18 J	0.22
Total Hardness	950	980	1000	870	890
Vanadium	13	8.4	0.3 U	10	13
Zinc	21000 E	20000 E	18000 E	17000 E	17000 E

NA Not analyzed
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RB Pond Effluent	TP04
8/22/2015	8/24/2015
21000	18000
0.48J *	U
0.49J	U
9.8*	9.4
7.5	5.9
85*	81
380000*	410000
1U	U
110	120
4400E	4700
56000	57000
7.5	2.9
35000	38000
33000E	34000
0.08U	U
0.68J *	U
62	79
3100	2600
5.8* ^	U ^
0.1U *	U
36000	35000
0.3	0.22
0.3U	1.4
23000E	25000
5U	U
24000	25000
0.83J *	1.4
9.5	7.3
10*	7.7
8.1	6.3
83*	66
390000*	420000
0.58	0.91
1.5J	2.8
110	110
4600E	4900
8.7	9.1
71000	93000
25	23
35000	39000
33000E	33000

0.08U	U
1.6*	1.9
64	72
0.23U H	U
4.35HF	4.05
3100	2500
6.4^ *	U
0.1U *	U
36000	35000
1500	1600
0.3	0.23
1100	1200
9.3	17
23000E	25000

centration is an approximate value.

Location	GKM 8/10/2015	Ponds 8/11/2015	% Removal in Ponds	GKM 8/13/2015	Ponds 8/13/2015
DISSOLVED METALS					
Aluminum (ug/L)	35000	8500	76%	36000	11000
Antimony (ug/L)	0.5	0.4 U	NA	10	1.4
Arsenic (ug/L)	3.7	0.37 U	NA	140	13
Barium (ug/L)	8.9	9.4	-6%	12	9.1
Beryllium (ug/L)	11	3.4	69%	11	3.6
Cadmium (ug/L)	65	80	-23%	66	70
Calcium (ug/L)	380000	340000	11%	360000	340000
Chromium (ug/L)	2.7	1 U	NA	8.6	1.4
Cobalt (ug/L)	110	100	9%	110	93
Copper (ug/L)	6000	2800	53%	6100	1800
Iron (ug/L)	120000	63000	48%	370000	90000
Lead (ug/L)	32	2.6	92%	78	16
Magnesium (ug/L)	33000	26000	21%	26000	26000
Manganese (ug/L)	33000	30000	9%	34000	29000
Mercury (ug/L)	0.08 U	0.08 U	NA	0.08 U	0.08 U
Molybdenum (ug/L)	0.84	0.64	24%	16	2.2
Nickel (ug/L)	72	58	19%	69	55
Potassium (ug/L)	2700	2300	15%	2700	2300
Selenium (ug/L)	1.7	0.58 U	NA	4.8	3.1
Silver (ug/L)	0.1 U	0.1 U	NA	0.33	0.11
Sodium (ug/L)	3900	120000	-2977%	480 U	150000
Thallium (ug/L)	0.32	0.25	22%	0.35	0.25
Vanadium (ug/L)	2	0.3 U	NA	87	9.7
Zinc (ug/L)	25000	22000	12%	26000	19000
TOTAL METALS AND MISC					
Alkalinity (mg/L)	NA	5 U	NA	5 U	5 U
Aluminum (ug/L)	38000	21000	45%	36000	11000
Antimony (ug/L)	4.3	1.3	70%	9.4	1.3
Arsenic (ug/L)	49	12	76%	130	14
Barium (ug/L)	9.5	9.5	0%	11	9.3
Beryllium (ug/L)	11	6.6	40%	11	3.5
Cadmium (ug/L)	67	79	-18%	68	71
Calcium (ug/L)	380000	340000	11%	380000	350000
Chloride (mg/L)	NA	0.9	NA	0.34	2.8
Chromium (ug/L)	5.7	2.6	54%	7	1.1
Cobalt (ug/L)	120	99	18%	110	95
Copper (ug/L)	6300	3900	38%	6000	1800
Fluoride (mg/L)	NA	7.2	NA	11	5.5
Iron (ug/L)	190000	99000	48%	310000	87000
Lead (ug/L)	51	22	57%	69	16
Magnesium (ug/L)	28000	26000	7%	28000	27000
Manganese (ug/L)	34000	29000	15%	35000	30000

Mercury (ug/L)	0.08 U	0.08 U	NA	0.08 U	0.08 U
Molybdenum (ug/L)	4.8	1.6	67%	14	2.3
Nickel (ug/L)	74	60	19%	70	57
Nitrate as N (mg/L)	NA	0.046 U	NA	0.023 U	0.023 U
pH	NA	4.59	NA	3.06	4.52
Potassium (ug/L)	2900	2300	21%	2700	2400
Selenium (ug/L)	2.5	0.58 U	NA	4.3	3.9
Silver (ug/L)	0.15	0.11	27%	0.3	0.11
Sodium (ug/L)	4000	120000	-2900%	4800 U	140000
Sulfate (mg/L)	NA	1400	NA	1600	1400
Thallium (ug/L)	0.33	0.27	18%	0.35	0.27
Total Hardness (mg/L)	1100	950	14%	1100	980
Vanadium (ug/L)	44	13	70%	71	8.4
Zinc (ug/L)	27000	21000	22%	26000	20000

NA Not analyzed Not analyzed
 E Result exceededResult exceeded sample range
 U The analyte was The analyte was analyzed for but not detected
 J The result is lessThe result is less than the reporting limit but greater than or equal to the
 ^ Instrument relatInstrument related QC is outside acceptance limits

% Removal in Ponds	GKM 8/15/2015	Ponds 8/15/2015	% Removal in Ponds	Mine 8/17/2015	Ponds 8/17/2015
69%	34000	28000	18%	33000	17000
86%	3.7	1.5	59%	0.44	0.4
91%	44	16	64%	2.6	0.52
24%	8.6	8.5	1%	8.9	13
67%	11	9	18%	9.8	5.8
-6%	82	80	2%	80	63
6%	370000	350000	5%	370000	310000
84%	5.5	3.3	40%	2.5	1 U
15%	110	100	9%	100	80
70%	4600	3900	15%	5800	3300
76%	150000	96000	36%	110000	52000
79%	42	24	43%	32	8.8
0%	27000	26000	4%	26000	22000
15%	36000	31000	14%	32000	24000
NA	0.08 U	0.08 U	NA	0.08 U	0.08 U
86%	4.2	1.4	67%	0.45	0.45
20%	69	68	1%	62	48
15%	2400	2200	8%	2600	2000
35%	4.7	3.8	19%	12	11
67%	0.1	0.1 U	NA	0.1 U	0.1 U
NA	5300	52000	-881%	5500	50000
29%	0.29	0.23	21%	0.27	0.17
89%	38	14	63%	1.1	0.3
27%	20000	18000	10%	24000	17000
NA	5 U	5 U	NA	5	5
69%	33000	26000	21%	33000	22000
86%	0.62	0.4 U	NA	3.5	1.1
89%	5.5	1.2	78%	45	14
15%	8.7	9	-3%	9	12
68%	11	8.6	22%	9.8	6.5
-4%	85	84	1%	77	62
8%	380000	360000	5%	360000	310000
-724%	0.36	1.2	-233%	0.36	1.1
84%	3	1 U	NA	4.2	1.8
14%	110	100	9%	100	80
70%	4600	3800	17%	5800	3600
50%	10	8.9	11%	11	7.8
72%	120000	70000	42%	140000	76000
77%	29	11	62%	41	26
4%	27000	28000	-4%	26000	23000
14%	36000	32000	11%	32000	25000

NA	0.08 U	0.08 U	NA	0.08 U	0.08 U
84%	0.77	0.45 U	NA	4.3	1
19%	72	70	3%	63	50
NA	0.023 U	0.025	NA	0.046 UH	0.046 UH
-48%	2.93	3.19	-9%	3.03	3.69
11%	2500	2200	12%	2600	2100
9%	3.3	3.2	3%	15	14
63%	0.1 U	0.1 U	NA	0.1 U	0.1 U
NA	5200	54000	-938%	5300	51000
13%	1600	1400	13%	1600	1300
23%	0.29	0.23	21%	0.27	0.18
11%	1100	1000	9%	1000	870
88%	2.5	0.3 U	NA	32	17000 E
23%	20000	18000	10%	24000 E	

NA and the second column is an approximate value.

% Removal in Ponds			% Removal in Ponds			RB Pond Effluent		% Removal in Ponds	
8/19/2015 8/19/2015			8/22/2015			8/22/2015			
48%	32000	26000	19%	32000	21000	34%			
9%	0.69	0.4	42%	3.2	0.48	85%			
80%	6.6	1	85%	39	0.49	99%			
-46%	9.3	10	-8%	10	9.8	2%			
41%	8.5	6.8	20%	11	7.5	32%			
21%	83	79	5%	82	85	-4%			
16%	370000	340000	8%	380000	380000	0%			
NA	2.5	1	NA	4.6	1	NA			
20%	100	95	5%	120	110	8%			
43%	5600	4400	21%	5900	4400	25%			
53%	110000	63000	43%	130000	56000	57%			
73%	28	11	61%	38	7.5	80%			
15%	26000	25000	4%	27000	35000	-30%			
25%	32000	28000	13%	35000	33000	6%			
NA	0.08	0.08	NA	0.08	0.08	NA			
0%	1.7	1.3	24%	4.5	0.68	85%			
23%	64	58	9%	63	62	2%			
23%	2600	2600	0%	2500	3100	-24%			
8%	11	9.1	17%	5.3	5.8	-9%			
NA	0.1	0.1	NA	0.1	0.1	NA			
-809%	480	46000	-9483%	480	36000	-7400%			
37%	0.29	0.24	17%	0.3	0.3	NA			
73%	2.6	0.3	88%	29	0.3	NA			
29%	22000	19000	14%	25000	23000	8%			
NA	5	5	NA	5	5	NA			
33%	33000	24000	27%	33000	24000	27%			
NA	3.7	1.3	NA	3.4	0.83	NA			
69%	49	17	65%	48	9.5	80%			
-33%	8.8	11	-25%	10	10	0%			
34%	8.6	7	19%	11	8.1	26%			
19%	79	70	11%	84	83	1%			
14%	370000	320000	14%	380000	390000	-3%			
-206%	NA	NA		0.38	0.58	-53%			
NA	4.6	2.2	NA	5.2	1.5	NA			
20%	100	90	10%	120	110	8%			
38%	5600	4100	27%	6300	4600	27%			
29%	NA	NA		10	8.7	13%			
46%	140000	78000	44%	140000	71000	49%			
37%	41	26	37%	41	25	39%			
12%	25000	23000	8%	27000	35000	-30%			
22%	32000	27000	16%	38000	33000	13%			

NA	0.08	0.08	NA	0.08	0.08	NA
NA	6	2.7	NA	5.4	1.6	NA
21%	63	55	13%	67	64	4%
NA	0.023	0.023	NA	0.023	0.023	NA
-22%	2.92	3.35	-15%	3.23	4.35	-35%
19%	2600	2500	4%	2600	3100	-19%
7%	8.3	6.7	19%	2.4	6.4	-167%
NA	0.16	0.11	NA	0.1	0.1	NA
-862%	480	40000	-8233%	480	36000	-7400%
19%	NA	NA		1600	1500	6%
33%	0.29	0.22	24%	0.31	0.3	3%
13%	1000	890	11%	1100	1100	0%
NA	32	13	NA	36	9.3	74%
#VALUE!	21000	17000	19%	26000	23000	12%

TP04		% Removal in Ponds
8/24/2015	8/24/2015	
31000	18000	42%
0.57	0.4	30%
2.1	1	52%
7.9	9.4	-19%
9.3	5.9	37%
69	81	-17%
350000	410000	-17%
2.9	1	NA
120	120	0%
6600	4700	29%
97000	57000	41%
25	2.9	88%
22000	38000	-73%
36000	34000	6%
0.08	0.08	NA
0.76	0.45	41%
80	79	1%
2600	2600	0%
0.58	0.58	NA
0.1	0.1	NA
480	35000	-7192%
0.45	0.22	NA
3.4	1.4	NA
28000	25000	11%
5	5	NA
32000	25000	22%
2.4	1.4	NA
14	7.3	48%
6.9	7.7	-12%
8.2	6.3	23%
60	66	-10%
400000	420000	-5%
0.35	0.91	-160%
4.2	2.8	NA
120	110	8%
6100	4900	20%
10	9.1	9%
140000	93000	34%
38	23	39%
27000	39000	-44%
35000	33000	6%

0.08	0.08	NA
3.5	1.9	NA
71	72	-1%
0.023	0.023	NA
3.11	4.05	-30%
2700	2500	7%
0.58	0.58	0%
0.1	0.1	NA
480	35000	-7192%
1800	1600	11%
0.44	0.23	48%
1100	1200	-9%
30	17	43%
28000	25000	11%

Location	GKM 8/10/2015	Ponds 8/11/2015	removal in P	GKM 8/13/2015	Ponds 8/13/2015	removal in P	GKM 8/15/2015
DISSOLVED METALS							
Aluminum (ug/L)	35000	8500	76%	36000	11000	69%	34000
Antimony (ug/L)	0.5	0.4 U	NA	10	1.4	86%	3.7
Arsenic (ug/L)	3.7	0.37 U	NA	140	13	91%	44
Barium (ug/L)	8.9	9.4	-6%	12	9.1	24%	8.6
Beryllium (ug/L)	11	3.4	69%	11	3.6	67%	11
Cadmium (ug/L)	65	80	-23%	66	70	-6%	82
Calcium (ug/L)	380000	340000	11%	360000	340000	6%	370000
Chromium (ug/L)	2.7	1 U	NA	8.6	1.4	84%	5.5
Cobalt (ug/L)	110	100	9%	110	93	15%	110
Copper (ug/L)	6000	2800	53%	6100	1800	70%	4600
Iron (ug/L)	120000	63000	48%	370000	90000	76%	150000
Lead (ug/L)	32	2.6	92%	78	16	79%	42
Magnesium (ug/L)	33000	26000	21%	26000	26000	0%	27000
Manganese (ug/L)	33000	30000	9%	34000	29000	15%	36000
Mercury (ug/L)	0.08 U	0.08 U	NA	0.08 U	0.08 U	NA	0.08 U
Molybdenum (ug/L)	0.84	0.64	24%	16	2.2	86%	4.2
Nickel (ug/L)	72	58	19%	69	55	20%	69
Potassium (ug/L)	2700	2300	15%	2700	2300	15%	2400
Selenium (ug/L)	1.7	0.58 U	NA	4.8	3.1	35%	4.7
Silver (ug/L)	0.1 U	0.1 U	NA	0.33	0.11	67%	0.1
Sodium (ug/L)	3900	120000	-2977%	480 U	150000	NA	5300
Thallium (ug/L)	0.32	0.25	22%	0.35	0.25	29%	0.29
Vanadium (ug/L)	2	0.3 U	NA	87	9.7	89%	38
Zinc (ug/L)	25000	22000	12%	26000	19000	27%	20000
TOTAL METALS AND MISC							
Alkalinity (mg/L)	NA	5 U	NA	5 U	5 U	NA	5 U
Aluminum (ug/L)	38000	21000	45%	36000	11000	69%	33000
Antimony (ug/L)	4.3	1.3	70%	9.4	1.3	86%	0.62
Arsenic (ug/L)	49	12	76%	130	14	89%	5.5
Barium (ug/L)	9.5	9.5	0%	11	9.3	15%	8.7
Beryllium (ug/L)	11	6.6	40%	11	3.5	68%	11
Cadmium (ug/L)	67	79	-18%	68	71	-4%	85
Calcium (ug/L)	380000	340000	11%	380000	350000	8%	380000
Chloride (mg/L)	NA	0.9	NA	0.34	2.8	-724%	0.36
Chromium (ug/L)	5.7	2.6	54%	7	1.1	84%	3
Cobalt (ug/L)	120	99	18%	110	95	14%	110
Copper (ug/L)	6300	3900	38%	6000	1800	70%	4600
Fluoride (mg/L)	NA	7.2	NA	11	5.5	50%	10
Iron (ug/L)	190000	99000	48%	310000	87000	72%	120000
Lead (ug/L)	51	22	57%	69	16	77%	29
Magnesium (ug/L)	28000	26000	7%	28000	27000	4%	27000
Manganese (ug/L)	34000	29000	15%	35000	30000	14%	36000

Mercury (ug/L)	0.08 U	0.08 U	NA	0.08 U	0.08 U	NA	0.08 U
Molybdenum (ug/L)	4.8	1.6	67%	14	2.3	84%	0.77
Nickel (ug/L)	74	60	19%	70	57	19%	72
Nitrate as N (mg/L)	NA	0.046 U	NA	0.023 U	0.023 U	NA	0.023 U
pH	NA	4.59	NA	3.06	4.52	-48%	2.93
Potassium (ug/L)	2900	2300	21%	2700	2400	11%	2500
Selenium (ug/L)	2.5	0.58 U	NA	4.3	3.9	9%	3.3
Silver (ug/L)	0.15	0.11	27%	0.3	0.11	63%	0.1 U
Sodium (ug/L)	4000	120000	-2900%	4800 U	140000	NA	5200
Sulfate (mg/L)	NA	1400	NA	1600	1400	13%	1600
Thallium (ug/L)	0.33	0.27	18%	0.35	0.27	23%	0.29
Total Hardness (mg/L)	1100	950	14%	1100	980	11%	1100
Vanadium (ug/L)	44	13	70%	71	8.4	88%	2.5
Zinc (ug/L)	27000	21000	22%	26000	20000	23%	20000

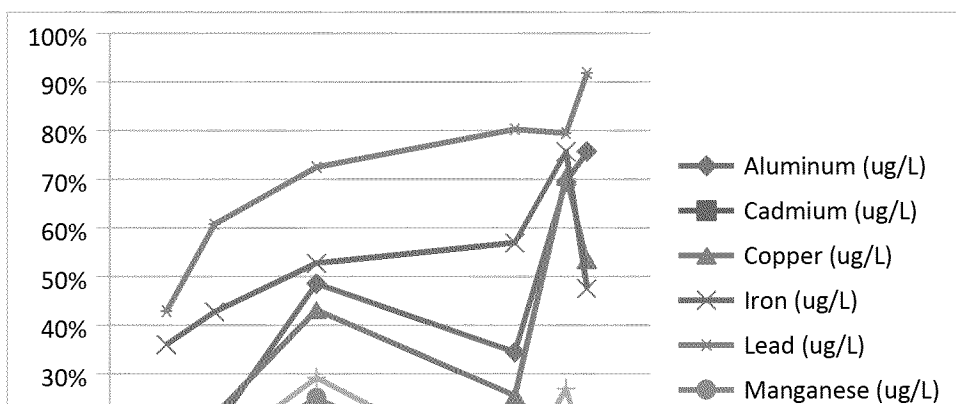
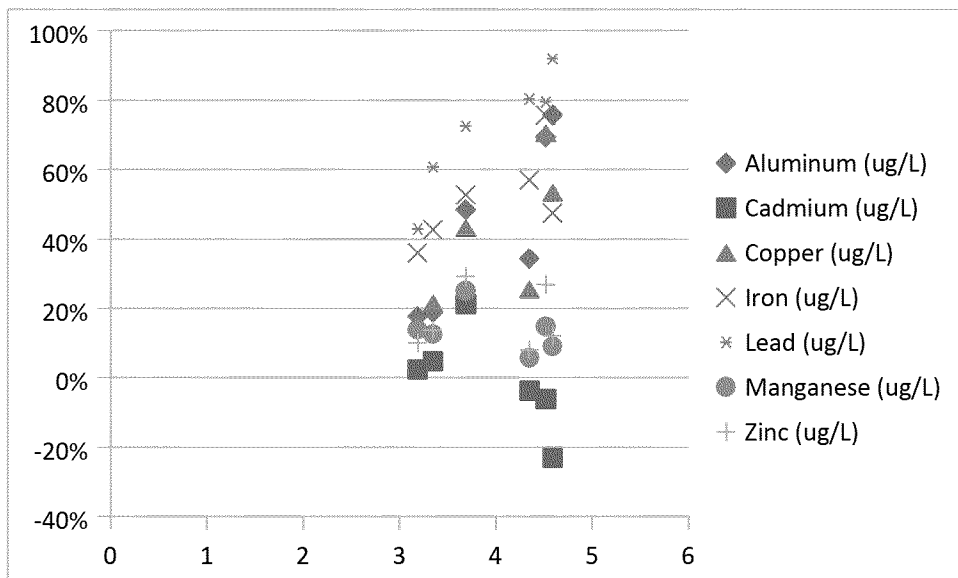
	4.59	4.52	3.19	3.69	3.35	4.35
Aluminum (ug/L)	76%	69%	18%	48%	19%	34%
Cadmium (ug/L)	-23%	-6%	2%	21%	5%	-4%
Copper (ug/L)	53%	70%	15%	43%	21%	25%
Iron (ug/L)	48%	76%	36%	53%	43%	57%
Lead (ug/L)	92%	79%	43%	73%	61%	80%
Manganese (ug/L)	9%	15%	14%	25%	13%	6%
Zinc (ug/L)	12%	27%	10%	29%	14%	8%

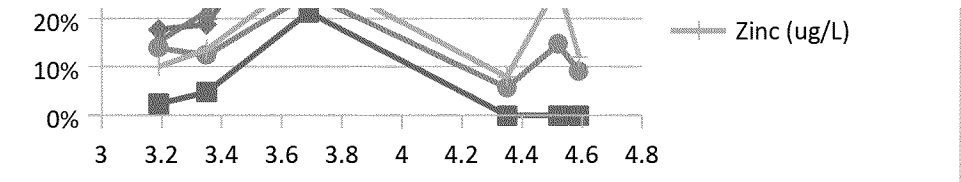
	15-Aug	17-Aug	19-Aug	22-Aug	13-Aug	11-Aug
	3.19	3.35	3.69	4.35	4.52	4.59
Aluminum (ug/L)	18%	19%	48%	34%	69%	76%
Cadmium (ug/L)	2%	5%	21%	0%	0%	0%
Copper (ug/L)	15%	21%	43%	25%	70%	53%
Iron (ug/L)	36%	43%	53%	57%	76%	48%
Lead (ug/L)	43%	61%	73%	80%	79%	92%
Manganese (ug/L)	14%	13%	25%	6%	15%	9%
Zinc (ug/L)	10%	14%	29%	8%	27%	12%

Red and Bonita Ponds 8/22

Ponds 8/15/2015	Removal in Por	Mine 8/17/2015	Ponds 8/17/2015	Removal in Ponds 8/19/2015	8/19/2015
28000	18%	33000	17000	48%	32000
1.5	59%	0.44	0.4	9%	0.69
16	64%	2.6	0.52	80%	6.6
8.5	1%	8.9	13	-46%	9.3
9	18%	9.8	5.8	41%	8.5
80	2%	80	63	21%	83
350000	5%	370000	310000	16%	370000
3.3	40%	2.5	1 U	NA	2.5
100	9%	100	80	20%	100
3900	15%	5800	3300	43%	5600
96000	36%	110000	52000	53%	110000
24	43%	32	8.8	73%	28
26000	4%	26000	22000	15%	26000
31000	14%	32000	24000	25%	32000
0.08 U	NA	0.08 U	0.08 U	NA	0.08
1.4	67%	0.45	0.45	0%	1.7
68	1%	62	48	23%	64
2200	8%	2600	2000	23%	2600
3.8	19%	12	11	8%	11
0.1 U	NA	0.1 U	0.1 U	NA	0.1
52000	-881%	5500	50000	-809%	480
0.23	21%	0.27	0.17	37%	0.29
14	63%	1.1	0.3	73%	2.6
18000	10%	24000	17000	29%	22000
5 U	NA	5	5	NA	5
26000	21%	33000	22000	33%	33000
0.4 U	NA	3.5	1.1	NA	3.7
1.2	78%	45	14	69%	49
9	-3%	9	12	-33%	8.8
8.6	22%	9.8	6.5	34%	8.6
84	1%	77	62	19%	79
360000	5%	360000	310000	14%	370000
1.2	-233%	0.36	1.1	-206%	NA
1 U	NA	4.2	1.8	NA	4.6
100	9%	100	80	20%	100
3800	17%	5800	3600	38%	5600
8.9	11%	11	7.8	29%	NA
70000	42%	140000	76000	46%	140000
11	62%	41	26	37%	41
28000	-4%	26000	23000	12%	25000
32000	11%	32000	25000	22%	32000

0.08 U	NA	0.08 U	0.08 U	NA	0.08	0.08
0.45 U	NA	4.3	1	NA	6	2.7
70	3%	63	50	21%	63	55
0.025	NA	0.046 UH	0.046 UH	NA	0.023	0.023
3.19	-9%	3.03	3.69	-22%	2.92	3.35
2200	12%	2600	2100	19%	2600	2500
3.2	3%	15	14	7%	8.3	6.7
0.1 U	NA	0.1 U	0.1 U	NA	0.16	0.11
54000	-938%	5300	51000	-862%	480	40000
1400	13%	1600	1300	19%	NA	NA
0.23	21%	0.27	0.18	33%	0.29	0.22
1000	9%	1000	870	13%	1000	890
0.3 U	NA	32	17000 E	NA	32	13
18000	10%	24000 E		#VALUE!	21000	17000





Removal in Ponds		RB Pond Effluent	Removal in Ponds
	8/22/2015	8/22/2015	

19%	32000	21000	34%
42%	3.2	0.48	85%
85%	39	0.49	99%
-8%	10	9.8	2%
20%	11	7.5	32%
5%	82	85	-4%
8%	380000	380000	0%
NA	4.6	1	NA
5%	120	110	8%
21%	5900	4400	25%
43%	130000	56000	57%
61%	38	7.5	80%
4%	27000	35000	-30%
13%	35000	33000	6%
NA	0.08	0.08	NA
24%	4.5	0.68	85%
9%	63	62	2%
0%	2500	3100	-24%
17%	5.3	5.8	-9%
NA	0.1	0.1	NA
-9483%	480	36000	-7400%
17%	0.3	0.3	NA
88%	29	0.3	NA
14%	25000	23000	8%
NA	5	5	NA
27%	33000	24000	27%
NA	3.4	0.83	NA
65%	48	9.5	80%
-25%	10	10	0%
19%	11	8.1	26%
11%	84	83	1%
14%	380000	390000	-3%
	0.38	0.58	-53%
NA	5.2	1.5	NA
10%	120	110	8%
27%	6300	4600	27%
	10	8.7	13%
44%	140000	71000	49%
37%	41	25	39%
8%	27000	35000	-30%
16%	38000	33000	13%

NA	0.08	0.08	NA
NA	5.4	1.6	NA
13%	67	64	4%
NA	0.023	0.23	NA
-15%	3.23	4.35	-35%
4%	2600	3100	-19%
19%	2.4	6.4	-167%
NA	0.1	0.1	NA
-8233%	480	36000	-7400%
	1600	1500	6%
24%	0.31	0.3	3%
11%	1100	1100	0%
NA	36	9.3	74%
19%	26000	23000	12%

